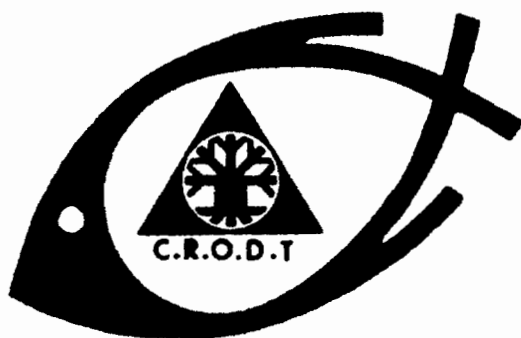


M. PRIVE

**BATHYTHERMOGRAPHES
ANNEE 1976**



CENTRE DE RECHERCHES OcéANOGRAPHIQUES DE DAKAR - THIAROYE

INSTITUT SÉNÉGALAIS DE RECHERCHES AGRICOLES *

ARCHIVE

N° 52

JUIN 1977

INSTITUT SENEGALAIS DE
RECHERCHES AGRICOLES

BATHYTHERMOGRAPHES

ANNEE 1976

par

M. PRIVE

CENTRE DE RECHERCHES OCEANOGRAPHIQUES
DE DAKAR-THIAROYE
(SENEGAL)

ARCHIVE N° 52

JUIN 1977

BATHYTHERMOGRAPHES

- Année 1976 -

Ce document regroupe tous les bathythermographes épars, effectués en 1976 par le C.R.O.D.T., n'ayant pas été inclus dans une archive d'une campagne quelconque.

- Ces B.T. ont été effectués le plus souvent avec une équipe de biologistes lors d'une campagne de prospection de pêche.

- Pour chaque campagne on trouvera :

- 1 tableau avec tous les paramètres
- 1 fig. avec la position des BT
- 1 série de bathythermogrammes
(plaques agrandies 2 à 3 fois).

- En Annexe on trouvera une note-figure représentant la définition caractéristique d'un B.T. pour interpréter l'immersion de la Thermocline selon WIRTKI (1971).

Liste des campagnes LA. 76.03 essais nouveaux B.T.
de cette archive : LA. 76.09 (voir Arch. N° 36)
LA. 76.12
LA. 76.25
LA. 76.38
CAP.76.05

LA 76.03 (3.3.76) ESSAIS ET ETALONNAGE BATHYTHERMOGRAPHE

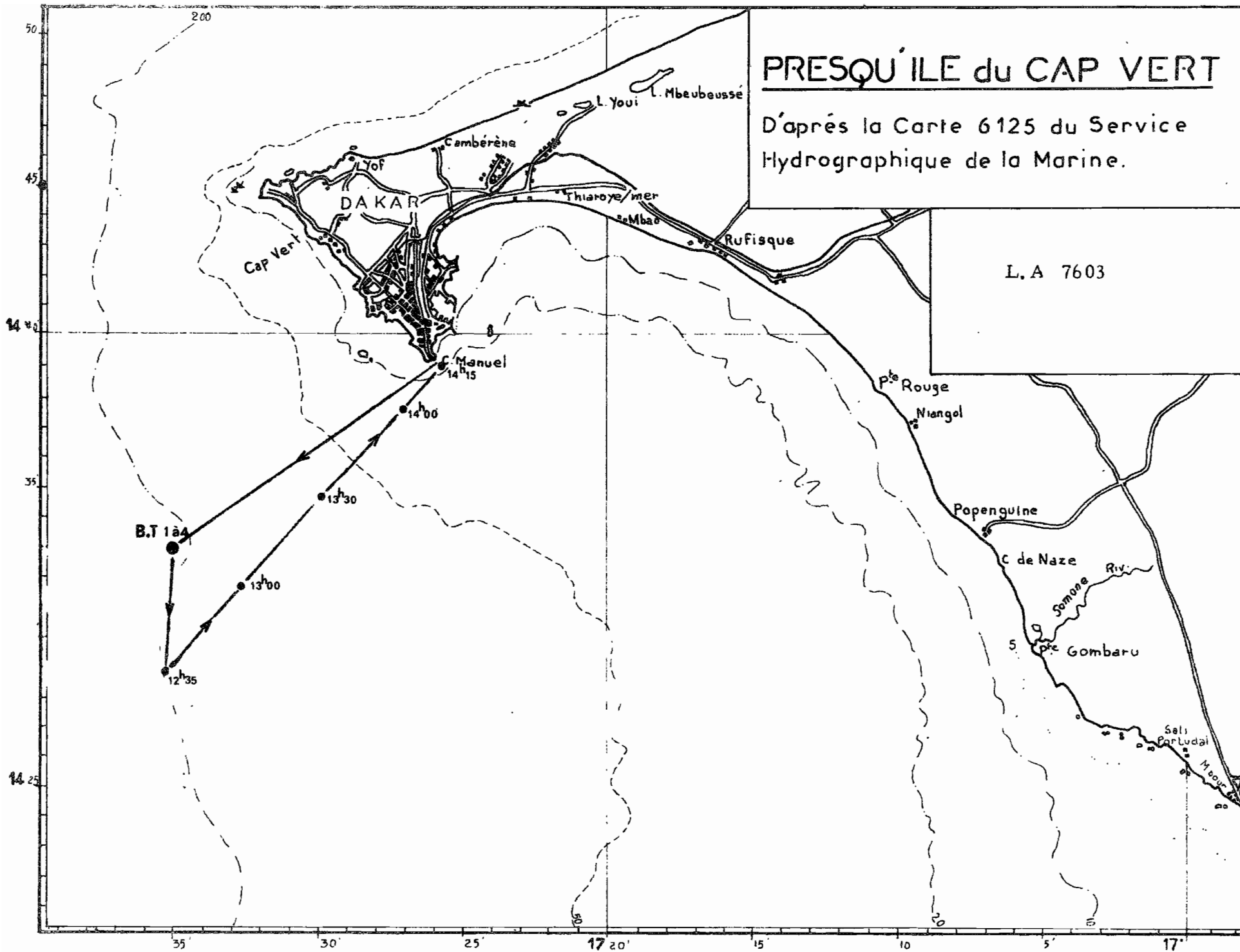
M. PRIVE

DATE	HEURE	POSITIONS		FOND	BT N°	PLAQUE BT N°	IMMER.	T° Surf.	T° Max. BT	COR. intr. en Prof.	S‰
		LAT.	LONG.								
3.3.76	09.50	14°33' N	17°35' W	300	17639	1	275	16.6	12.2	+0.1	35.52
"	10.10	"	"	280	11156	2	140	16.6	13.3	-0.6	"
"	10.30	"	"	210	16163	3	140	16.6	13.2	0	"
"	10.40	"	"	150	8123	4	60	16.6	14.0	-0.2	"
Prélèvement de surface Trajet Retour - (voir fig.)											
"	12.35	14°28'8N	17°35'4W	150	-	-	-	16.92	-	-	35.53
"	13.00	14°31'8N	17°32'8W	-	-	-	-	16.50	-	-	35.52
"	13.30	14°34'6N	17°30' W	-	-	-	-	15.90	-	-	35.49
"	14.00	14°37'6N	17°27' W	-	-	-	-	14.80	-	-	35.42
"	14.15	CAP MANUEL - BOUEE ROUGE						15.77	-	-	35.43

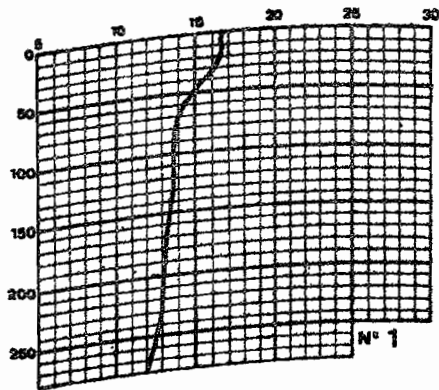
PRESQU'ILE du CAP VERT

D'après la Carte 6125 du Service
Hydrographique de la Marine.

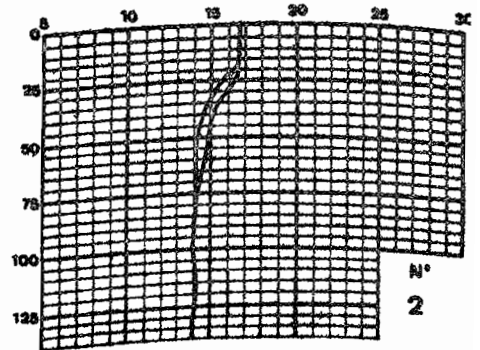
L. A 7603



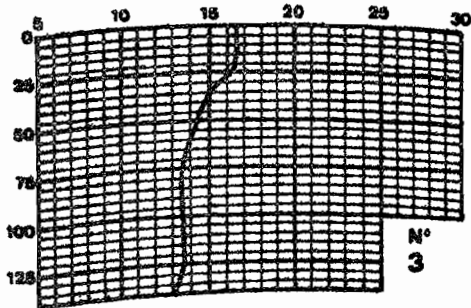
17639



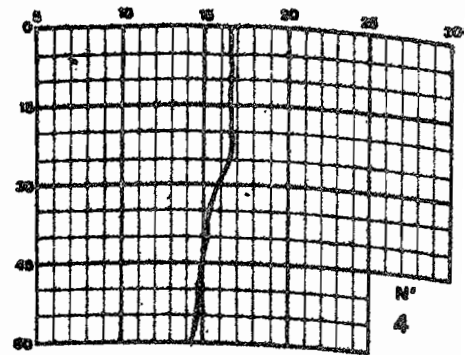
11156



16163



8123



L.A 7603

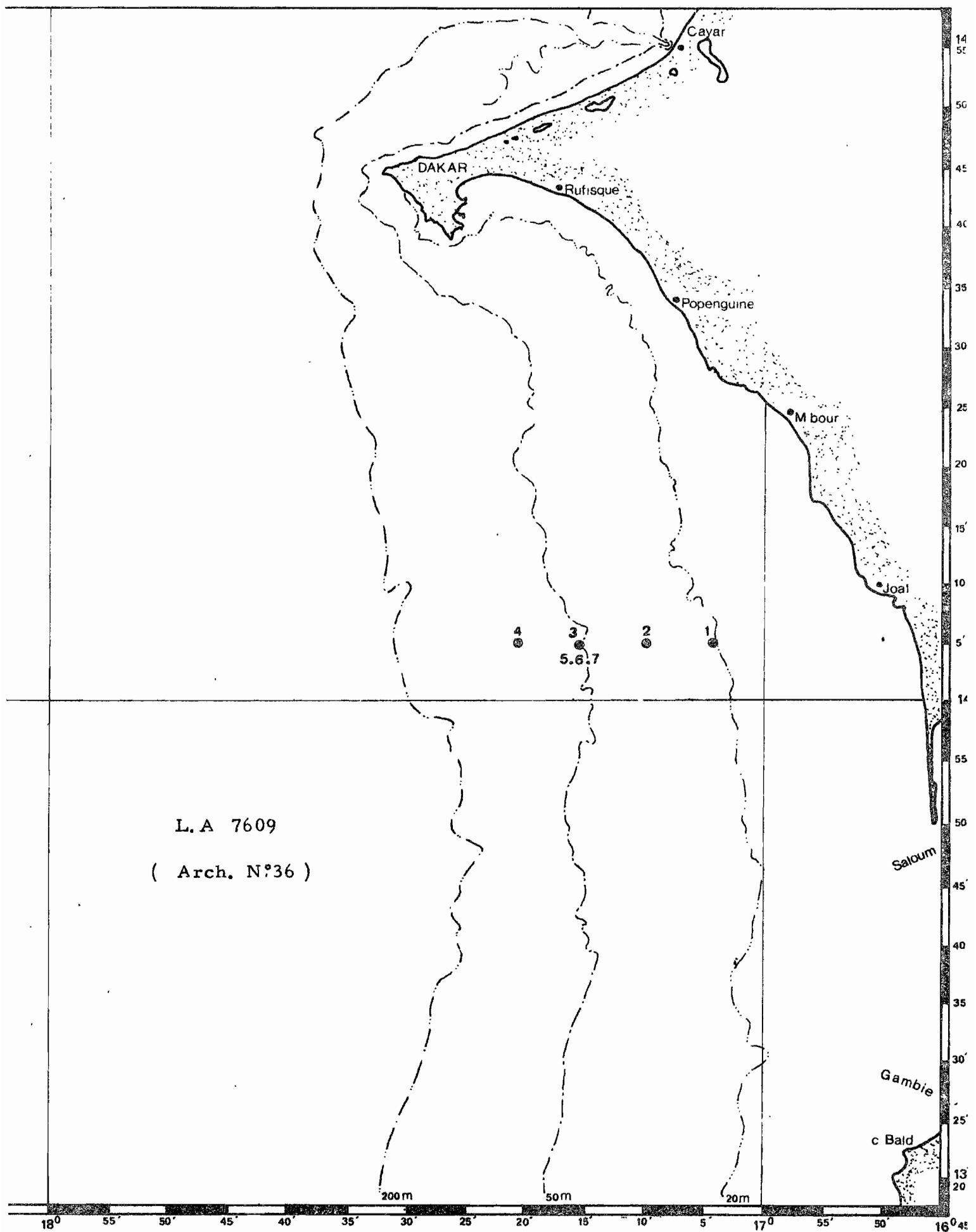
ESSAIS ET ETALONNAGE BATHY NEUF

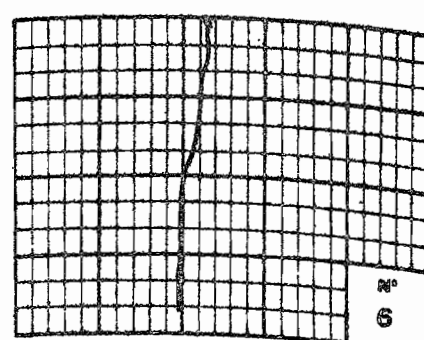
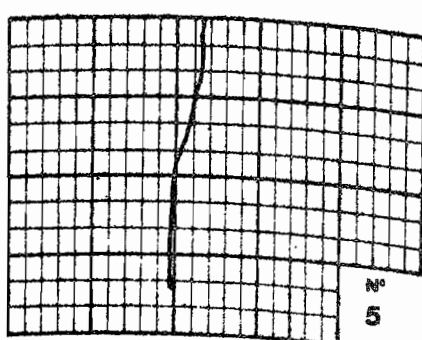
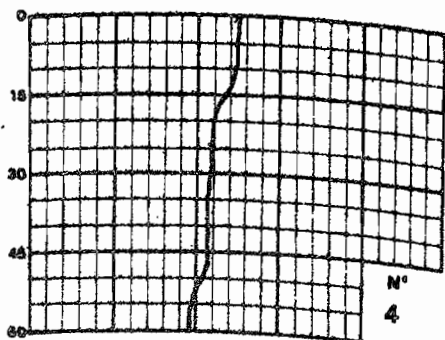
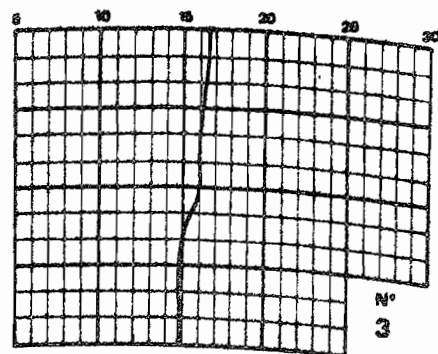
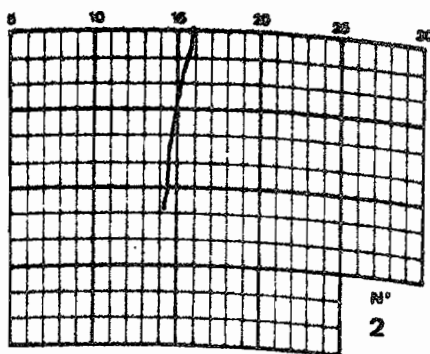
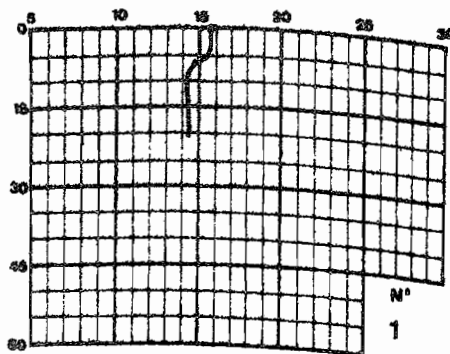
BATHYTHERMOGRAPHE N° 8123 et 16163

L.A. 76.09

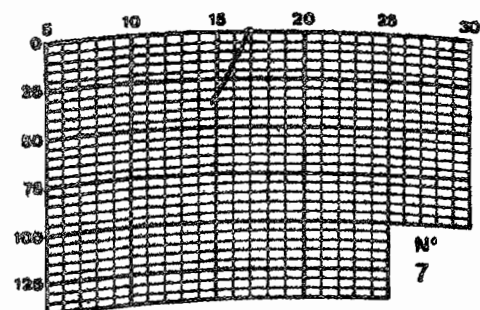
M. PRIVE (Arch. N° 36)

N° BT PLAQUE	POSITIONS		Fond sondeur	Date	Heure	T° surf.	S% surf.
	LAT.	LONG.					
1	14°05' N	17°04' W	20	16.3.76	17.00	15.80	35.39
2	14°05' N	17°10' W	32	"	17.55	15.90	35.41
3	14°05' N	17°16' W	58	"	20.10	16.40	35.47
4	14°05' N	17°21' W	75	"	21.00	17.50	35.51
5	14°05' N	17°15' W	47	"	22.15	16.50	35.47
6	14°05' N	17°15' W	47	"	23.20	16.40	35.47
7	14°05' N	17°15' W	46	17.3.76	12.30	16.92	35.58





8123



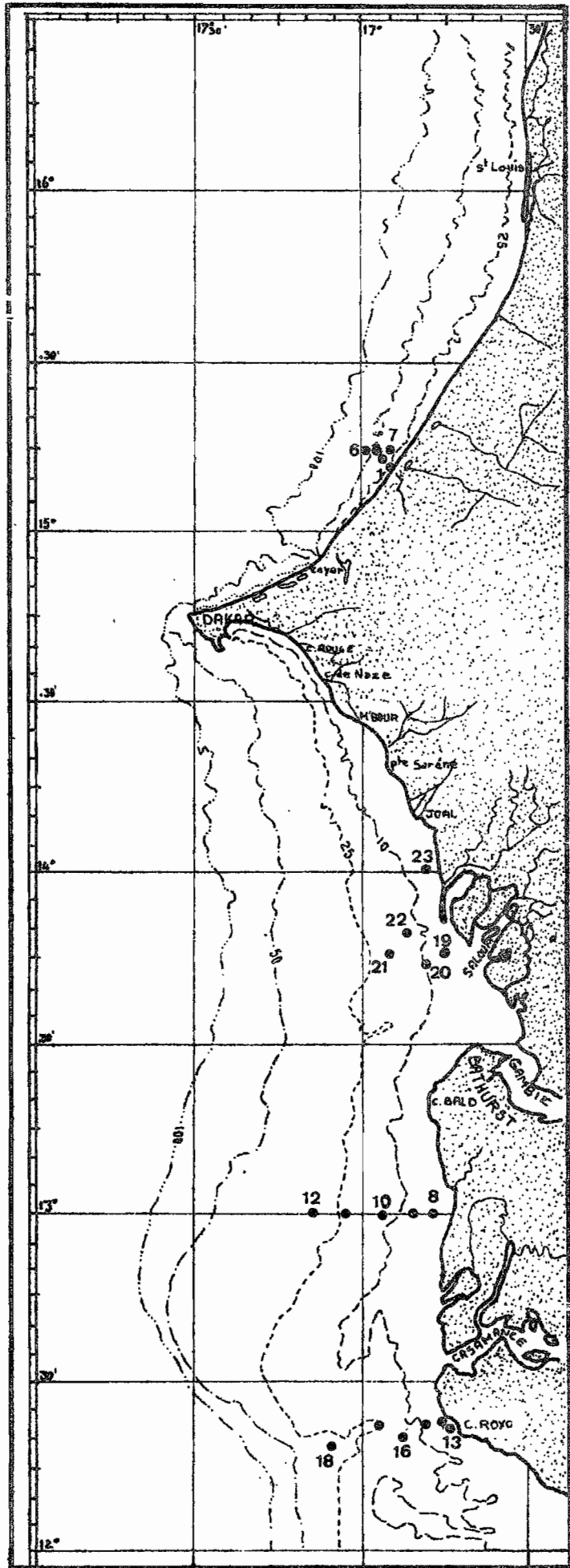
16163

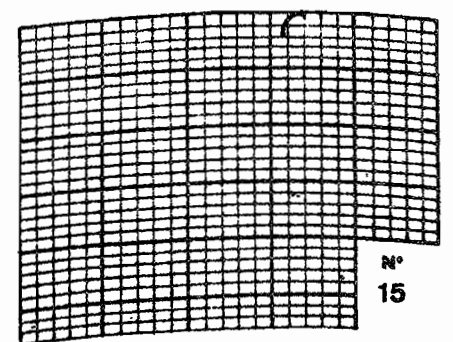
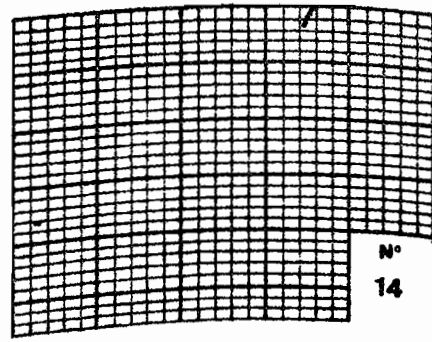
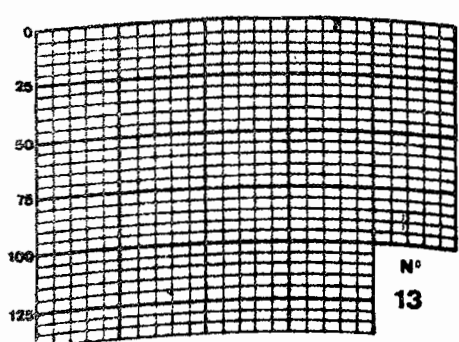
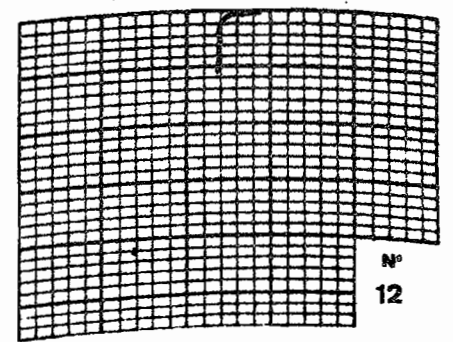
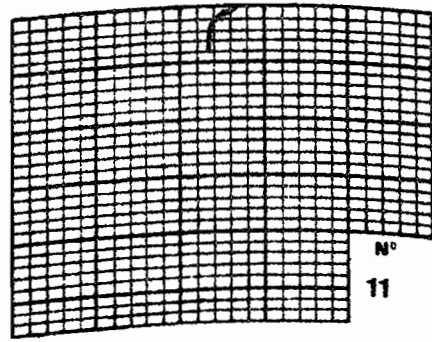
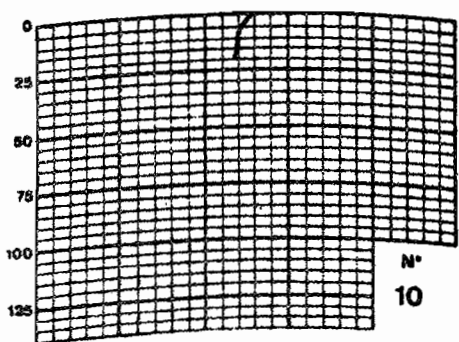
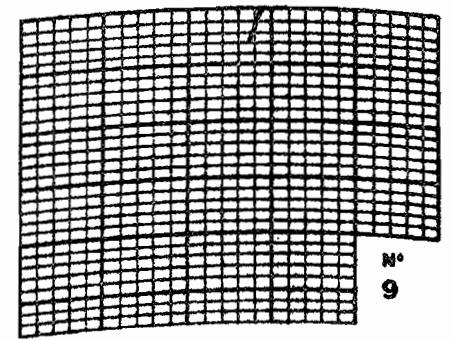
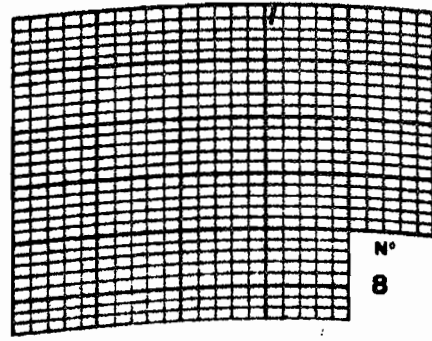
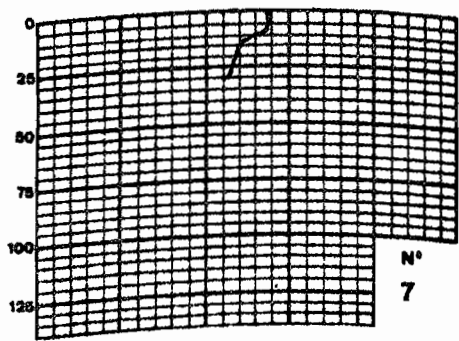
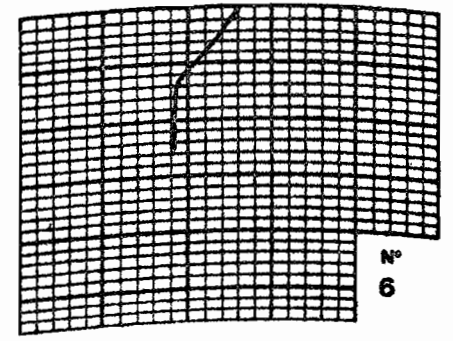
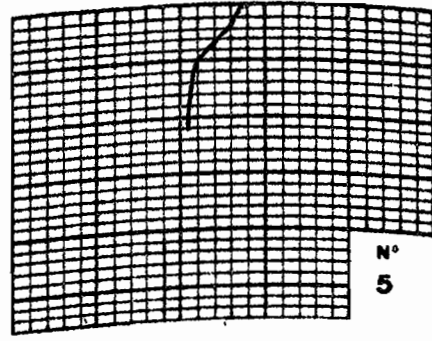
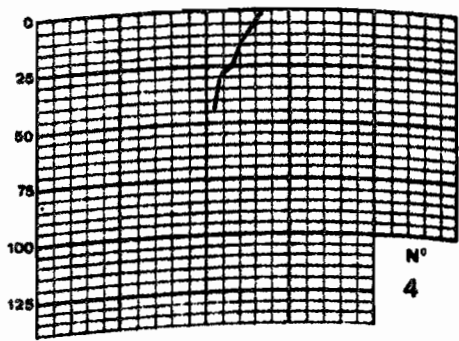
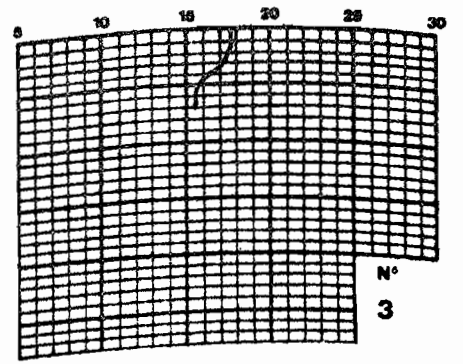
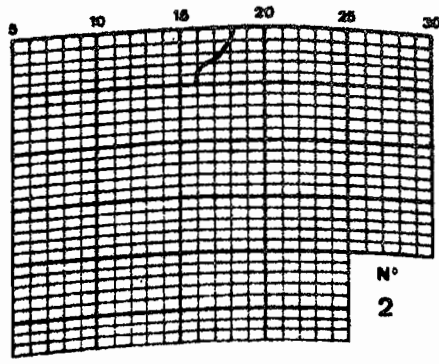
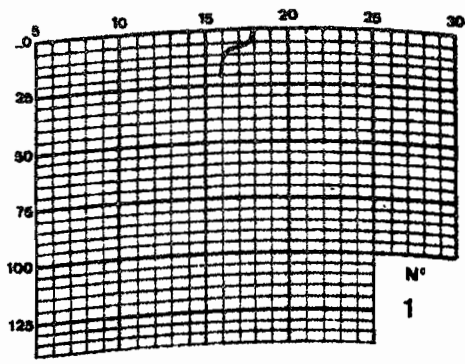
BATHYTHERMOGRAPHE N° 11156

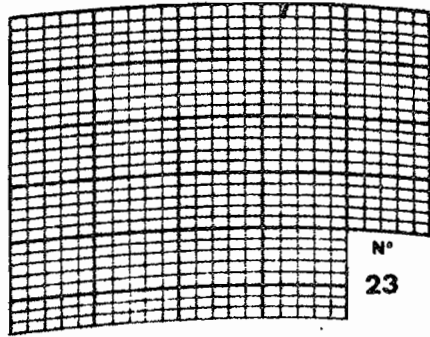
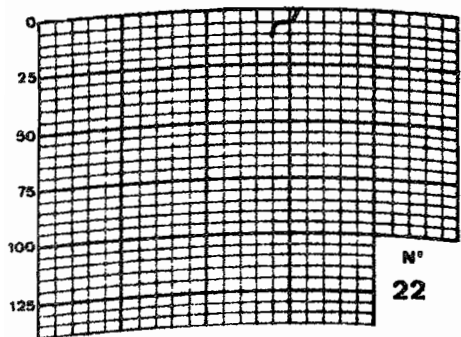
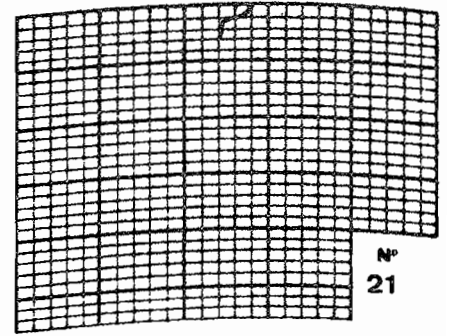
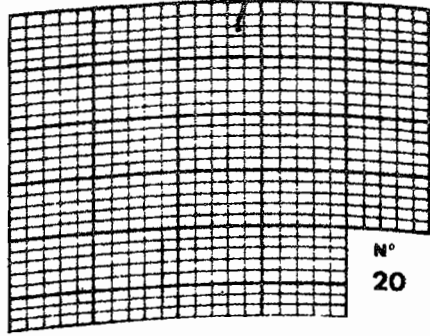
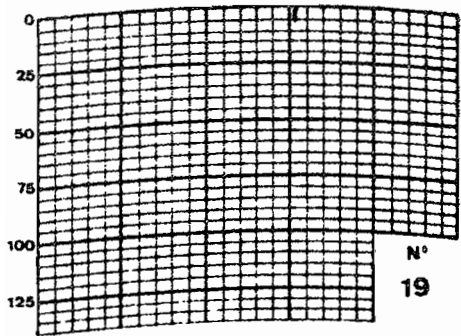
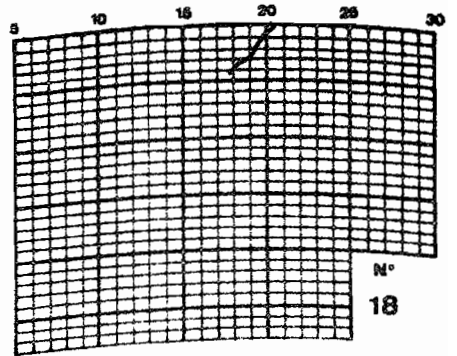
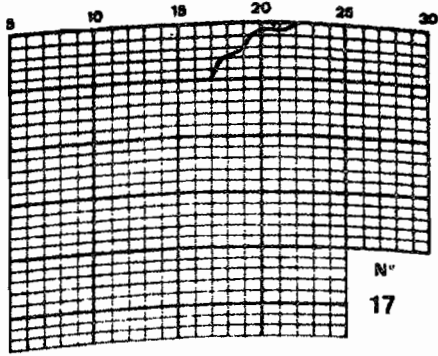
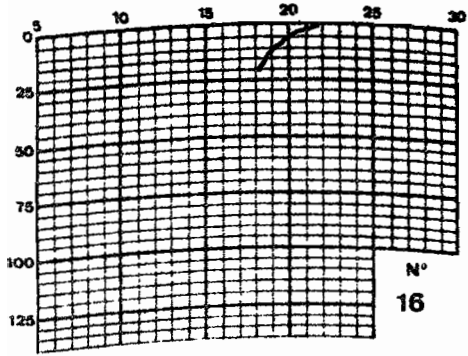
L.A. 76.12 (M. THIAM)

DATE	HEURE	POSITIONS		FOND (m)	PLAQUE BT N°	T° Surf.	S%osurf.
		LAT.	LONG.				
8.4.76	08.45	15°11'5N	16°55'4W	15	1	17.9	35.47
"	10.00	15°11'8N	16°55'8W	20	2	18.1	35.45
"	11.30	15°14' N	16°56' W	30	3	17.7	35.46
"	12.45	15°13'6N	16°58' W	40	4	18.2	35.45
"	14.30	15.15' N	16°58' W	50	5	18.7	35.46
"	16.15	15°14'8N	16°59'4W	60	6	18.0	35.47
"	17.50	15°13'5N	16°55'2W	25	7	18.8	35.46
12.4.76	09.30	13°00' N	16°47'2W	5	8	20.5	35.58
"	11.15	13°00' N	16°52' W	10	9	19.4	35.50
"	13.00	13°00' N	16°57'3W	15	10	17.8	35.46
"	15.10	13°00' N	17°03'8W	20	11	18.2	35.47
"	17.10	13°00' N	17°09' W	25	12	19.2	35.50
13.4.76	09.30	12°22'8N	16°46'2W	5	13	22.9	35.97
"	11.55	12°21'5N	16°45'5W	6-7	14	22.8	35.82
"	14.05	12.22' N	16°50' W	10	15	21.9	35.53
"	15.40	12°20' N	16°53' W	15	16	21.8	35.49
"	17.30	12°21'5N	16°58'2W	20	17	20.7	35.50
"	19.15	12°19' N	17°06' W	25	18	20.2	35.50
14.4.76	09.55	13°45' N	16°46'2W	5-6	19	20.3	35.52
"	11.50	13°43'3N	16°49' W	10	20	19.1	35.49
"	13.20	13°45' N	16°56'5W	15	21	19.0	35.49
"	15.15	13°49'5N	16°53'2W	9-10	22	20.3	35.50
"	16.45	14°00' N	16°49' W	5	23	21.4	35.54

L. A 7612





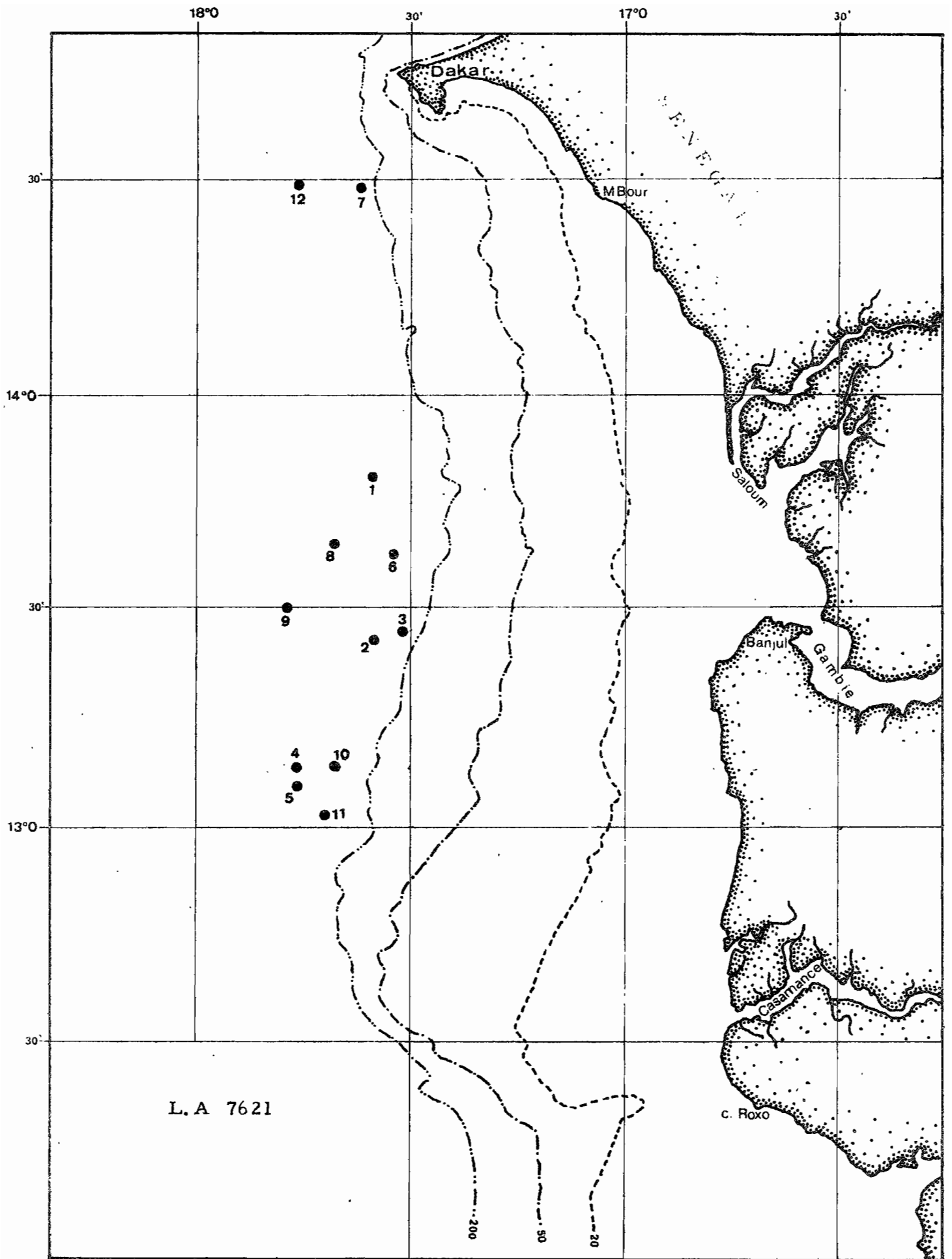


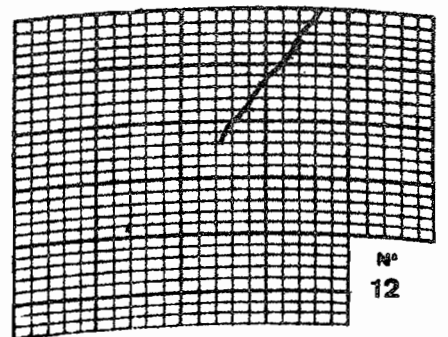
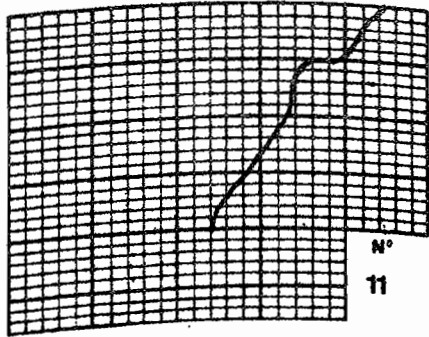
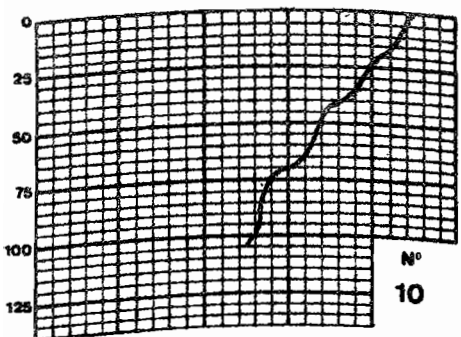
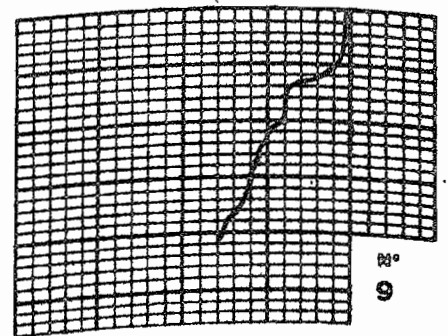
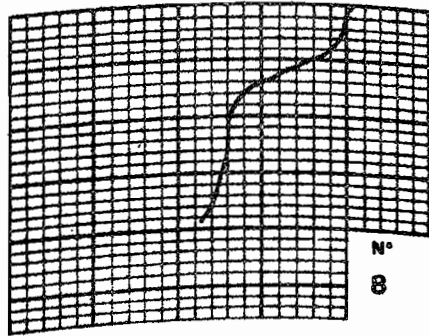
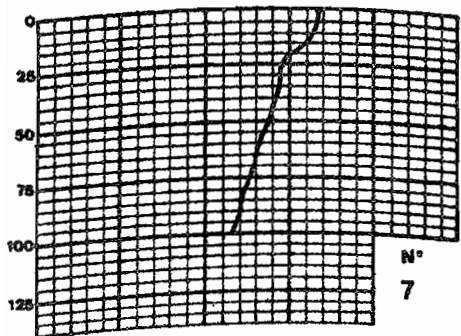
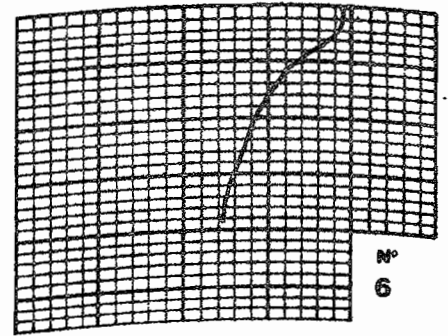
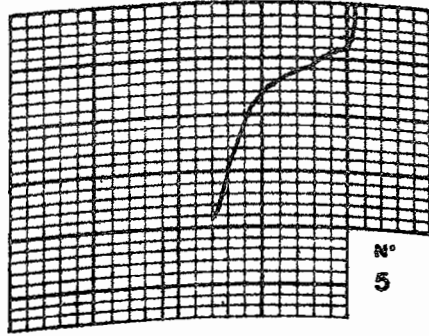
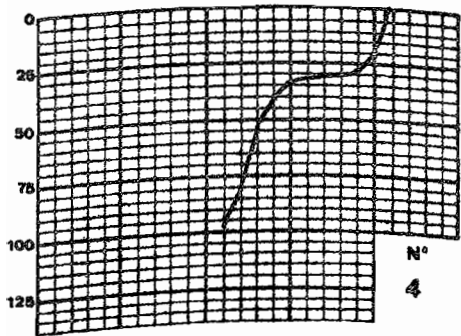
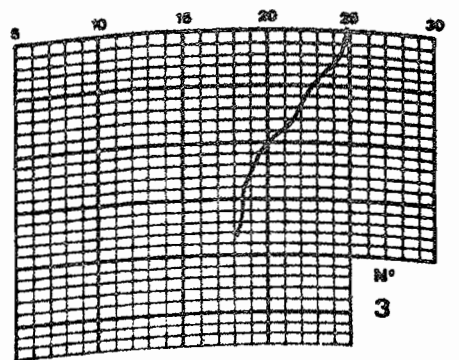
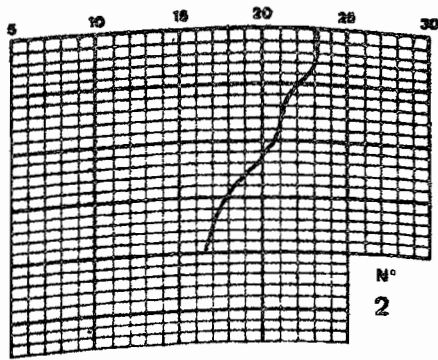
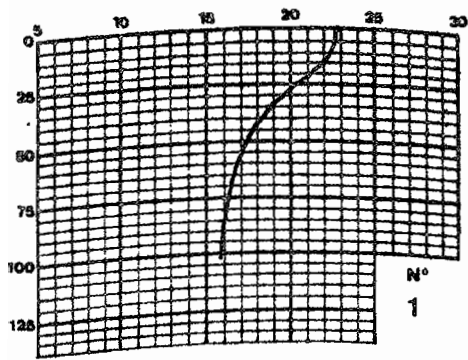
MISSION MARQUAGE THON : M. MAREC

BATHYTHERMOGRAPHE N° 11156

L. AMARO 76.21

DATE	HEURE	POSITIONS		FOND (m)	IMMER BT	PLAQ. BT N°	T° surf.	S% surf.
		LAT.	LONG.					
31.5.76	07.15	Baie	Gorée	15	-	-	19.0	35.57
31.5.76	19.50	13°47'N	17°35'W	960	100	1	22.9	35.67
01.6.76	06.40	13°26'N	17°35'W	700	100	2	23.1	35.73
01.6.76	13.00	13°27'N	17°31'W	300	100	3	24.9	35.87
01.6.76	20.00	13°09'N	17°45'W	1450	100	4	25.7	35.89
02.6.76	06.30	13°05'N	17°45'W	1500	100	5	25.4	35.87
02.6.76	13.00	13°37'N	17°32'W	670	100	6	24.5	35.84
02.6.76	19.40	14°29'N	17°37'W	500	100	7	24.6	35.65
03.6.76	19.30	13°38'N	17°40'W	1400	100	8	25.1	35.88
04.6.76	06.45	13°30'N	17°46'W	800	100	9	24.9	35.87
04.6.76	13.00	13°07'N	17°40'W	900	100	10	27.1	35.90
04.6.76	19.30	13°02'N	17°41'W	800	100	11	27.1	35.88
05.6.76	07.05	14°29'N	17°45'W	1500	100	12	23.1	35.67



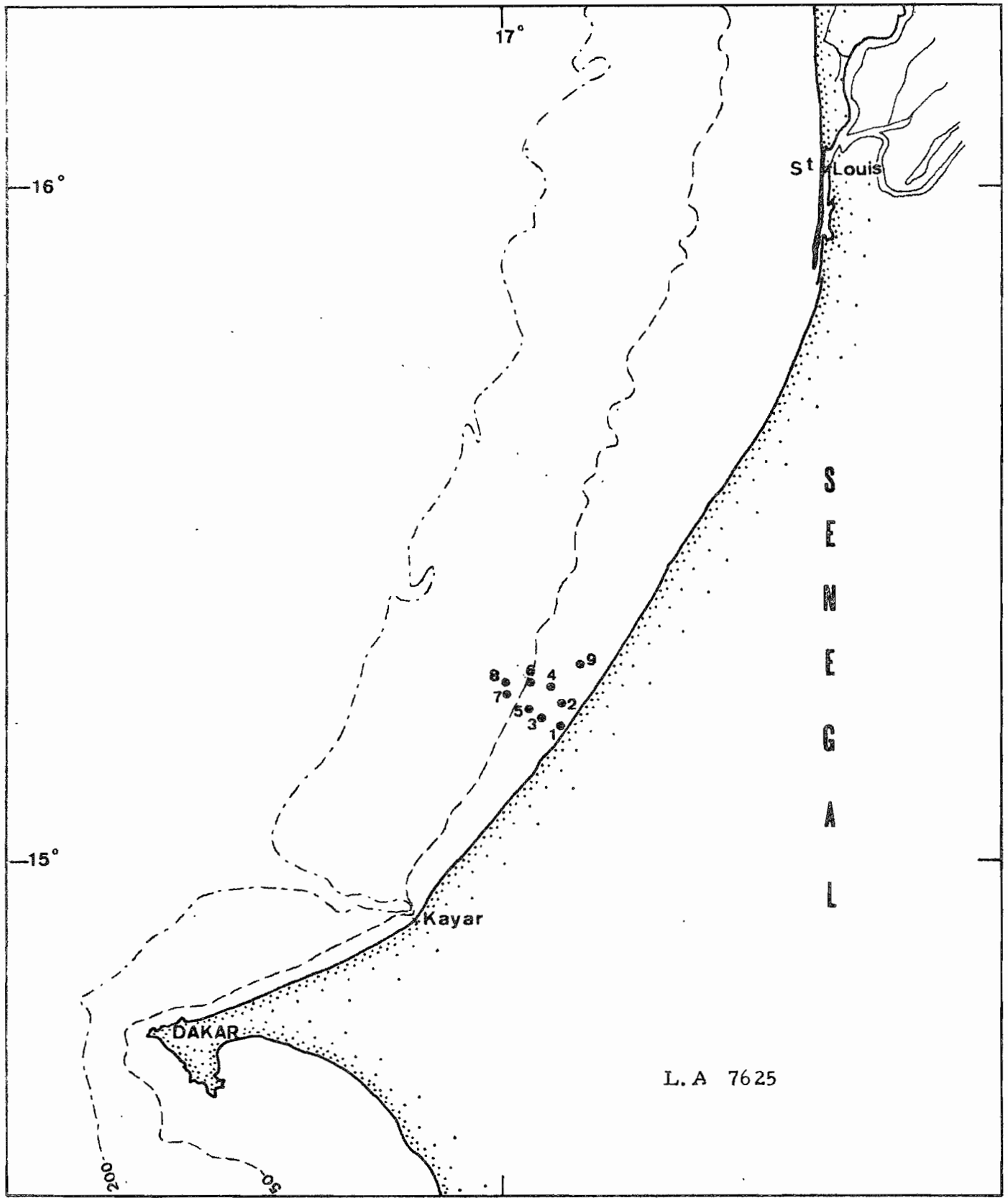


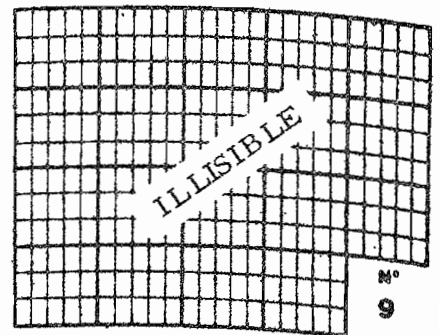
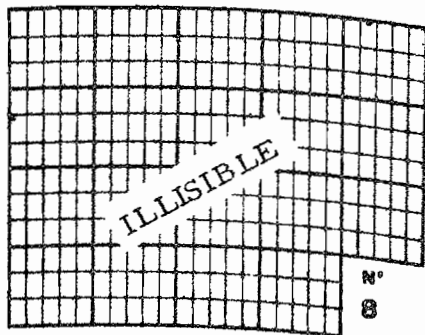
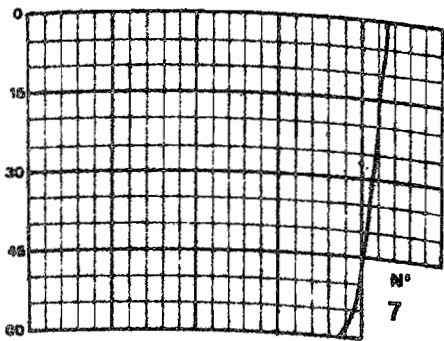
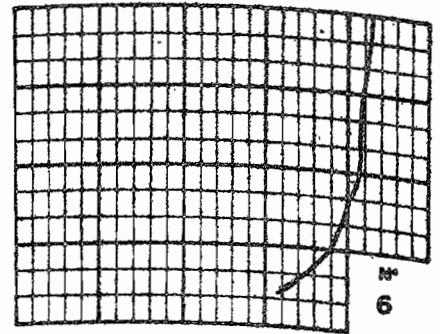
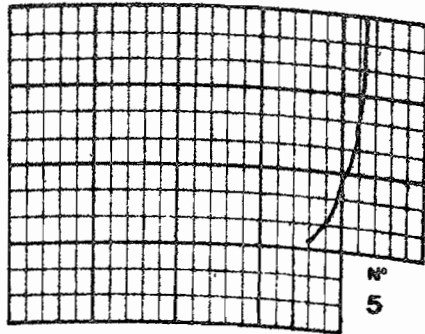
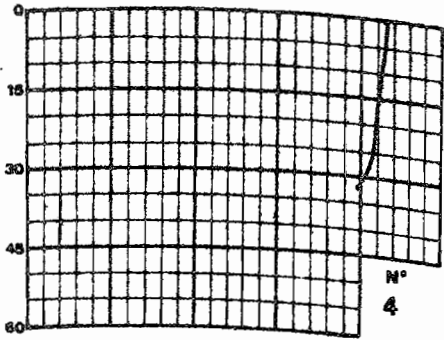
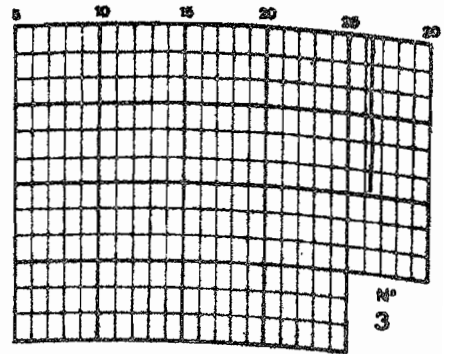
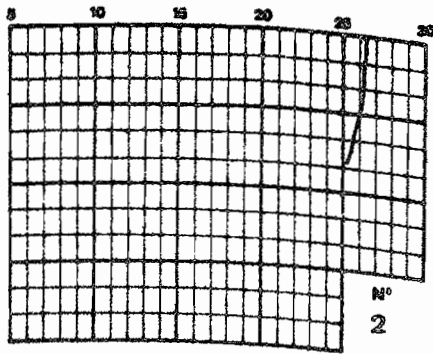
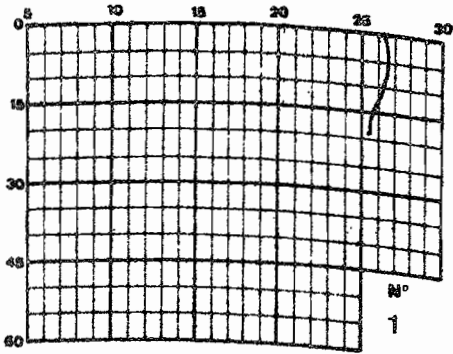
BATHYTHERMOGRAPHE N° 8123

MISSION L.A. 76.25

M. THIAM

DATE	HEURE	POSITIONS		FOND (m)	PLAQUE BT N°	T°surf.	S%osurf.
		LAT.	LONG.				
29.6.76	07.41	15°11'5N	16°55' W	15	1	26.5	35.91
"	08.52	15°13'8N	16°55' W	20	2	26.2	-
"	10.02	15°12'7N	16°56'5W	25	3	26.2	35.87
"	11.22	15°14'5N	16°56' W	30	4	26.4	35.89
"	12.34	15°13'8N	16°57'9W	40	5	26.4	-
"	13.45	15°15'8N	16°57'7W	50	6	26.4	-
"	14.53	15°15'0N	16°59'3W	60	7	26.5	35.90
"	16.11	15°16'0N	17°00'3W	70	8	26.5	35.85
"	18.09	15°17'7N	16°53' W	25	9	26.5	35.89





BATHYTHERMOGRAPHE N° 8123

L.A. 76.38

M. THIAM

DATE	HEURE	POSITIONS		BT N°	T° surf.	S‰ surf.
		LAT.	LONG			
13.10.76	08.10	12°22' N	16°45'5W	1	29.3	31.63
"	09.50	12°20' N	16°49' W	2	29.3	30.84
"	11.30	12°22' N	16°54' W	3	29.5	31.44
"	13.15	12°20' N	16°58'2W	4	29.3	31.84
"	15.10	12°21' N	17°06' W	5	29.2	31.79
"	17.20	12°20' N	17°14' W	6	19.1	31.89
"	18.45	12°21'7N	17°18' W	7	28.8	32.01
14.10.76	10.15	12°32' N	16°50'1W	8	29.3	30.56
"	11.35	12°34' N	16°54'3W	9	29.2	31.86
"	13.00	12°32' N	16°56'5W	10	29.2	31.88
"	15.30	12°34' N	17°00' W	11	29.5	31.97
"	16.00	12°32' N	17°04' W	12	29.7	32.16
"	18.15	12°32' N	17°14' W	13	29.0	31.91
15.10.76	09.30	13°47' N	16°47'5W	14	29.7	33.77
"	10.50	13°45' N	16°49'5W	15	29.0	33.01
"	12.20	13°41' N	16°51'5W	16	29.1	33.16
"	13.45	13°36'8N	16°53'4W	17	29.2	34.29
"	15.15	13°36' N	16°57' W	18	29.0	34.32
16.10.76	08.15	15°11'5N	16°55' W	19	28.0	34.08
"	09.40	15°13'7N	16°54'8W	20	28.1	34.35
"	10.05	15°12'5N	16°56'5W	21	28.2	34.22
"	11.50	15°14'5N	16°56' W	22	28.4	34.41
"	13.05	15°13'8N	16°57'9W	23	28.4	34.25
"	14.10	15°15'8N	16°57'7W	24	28.5	34.47
"	15.20	15°15' N	16°59'3W	25	28.5	34.11
"	-	-	-	26	-	-

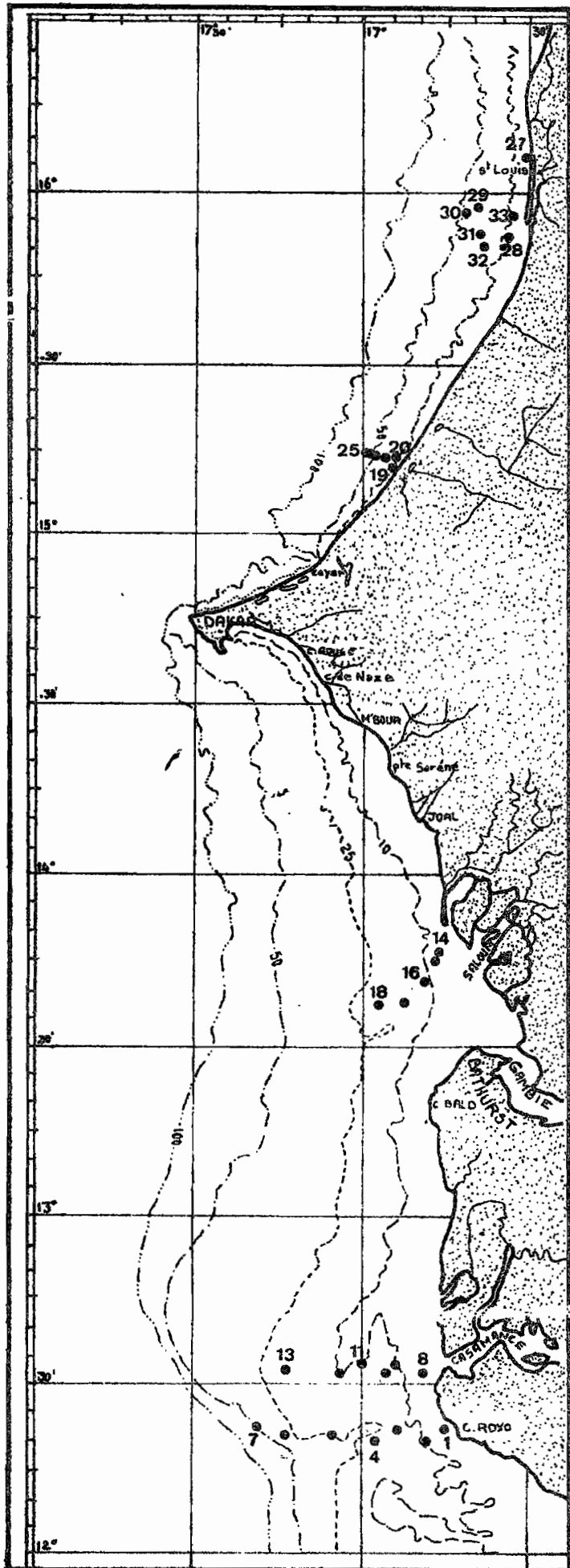
BATHYTHERMOGRAPHE N° 8123

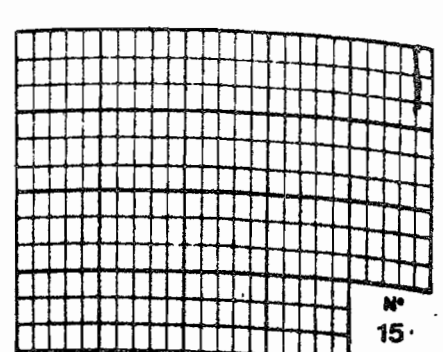
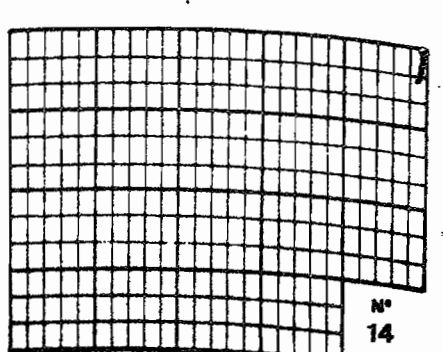
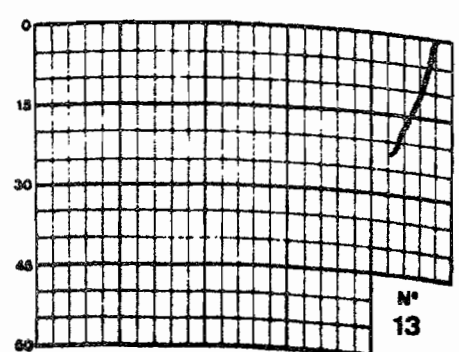
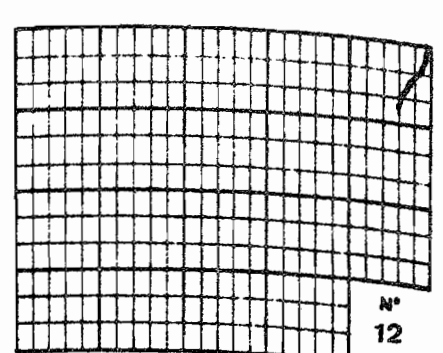
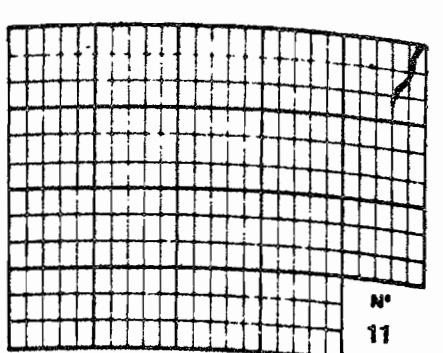
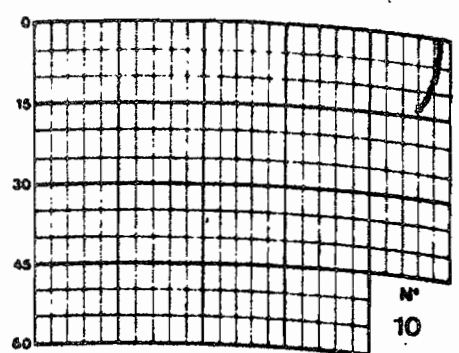
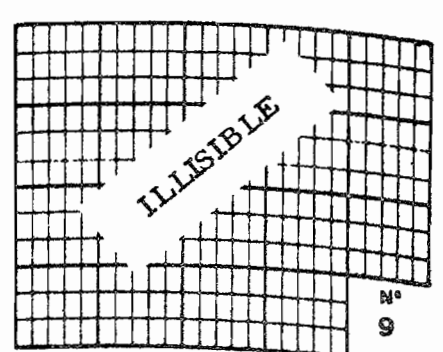
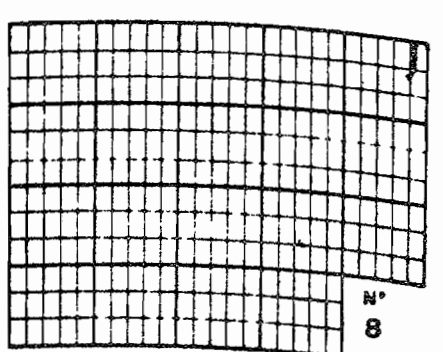
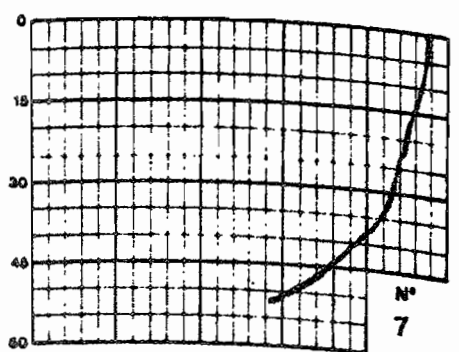
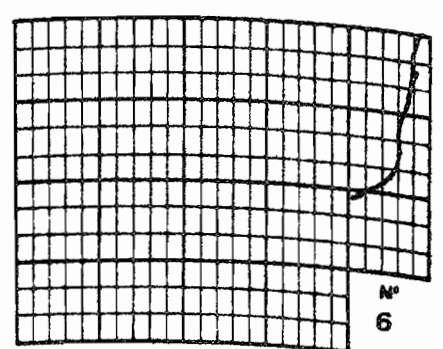
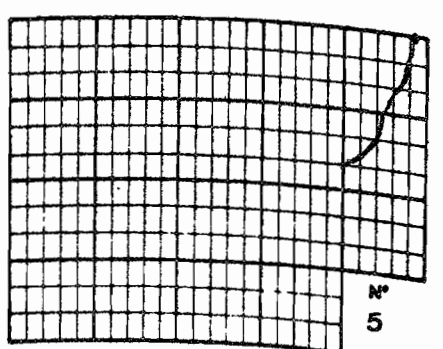
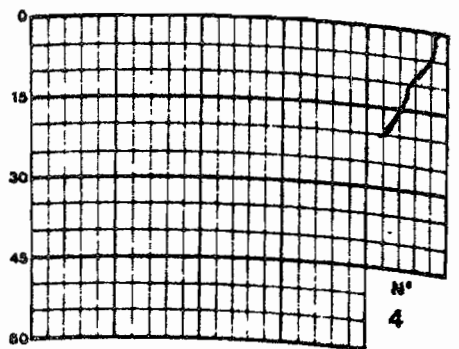
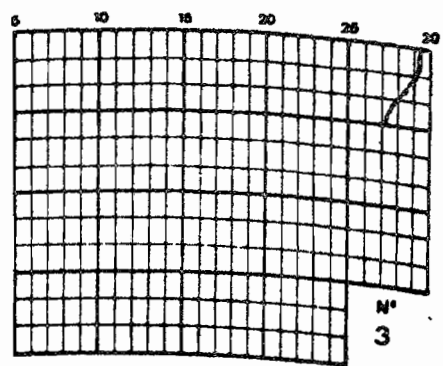
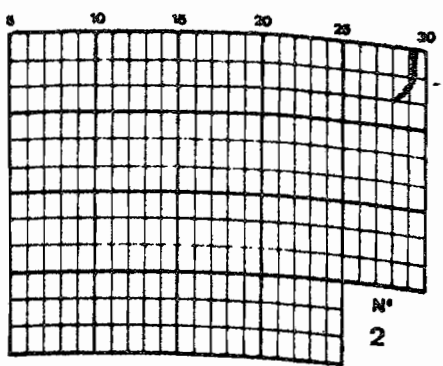
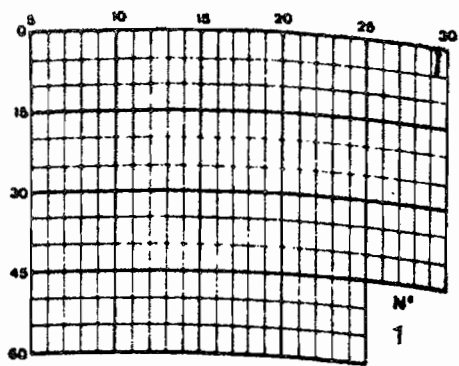
L.A. 76.38

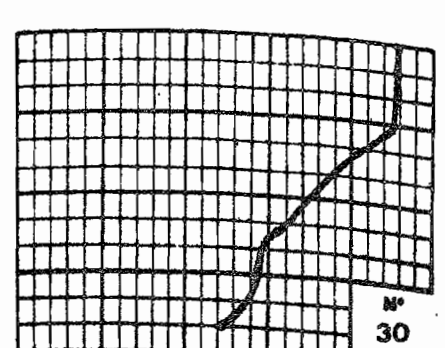
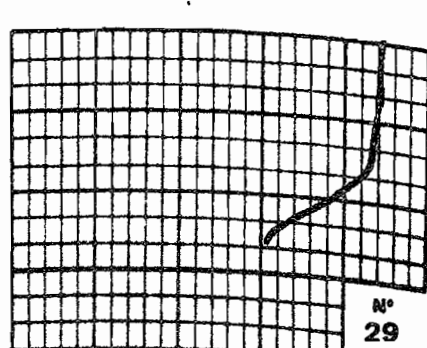
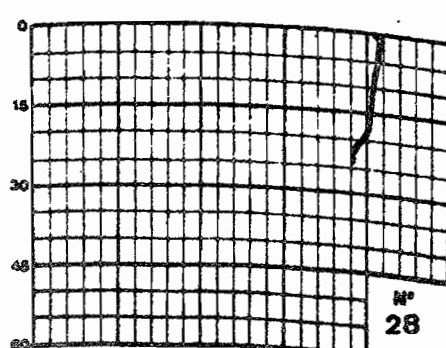
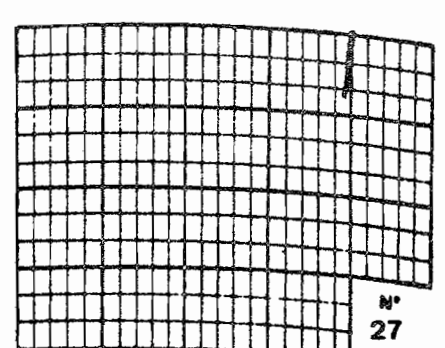
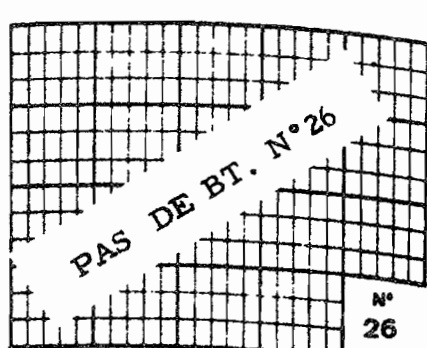
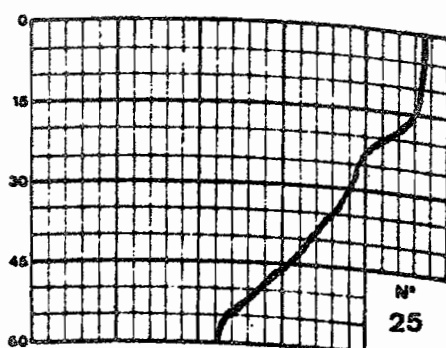
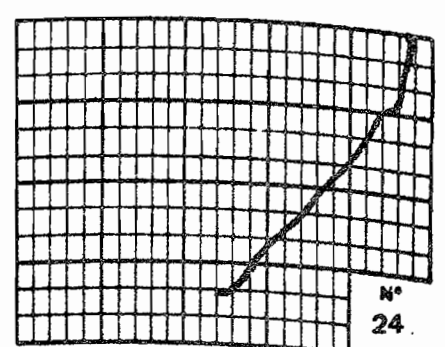
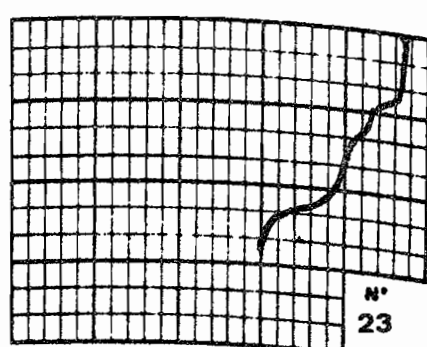
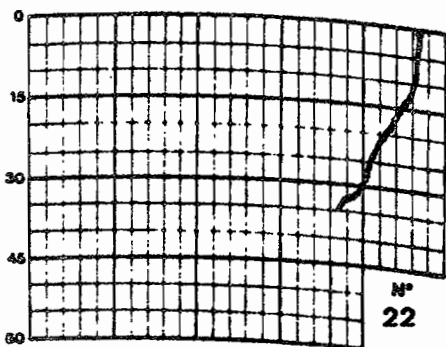
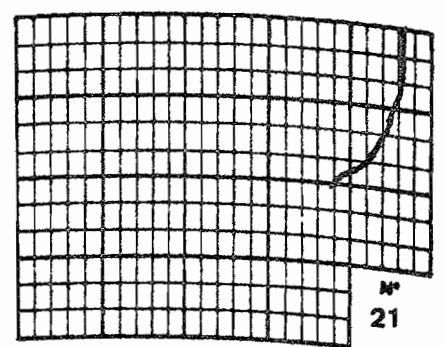
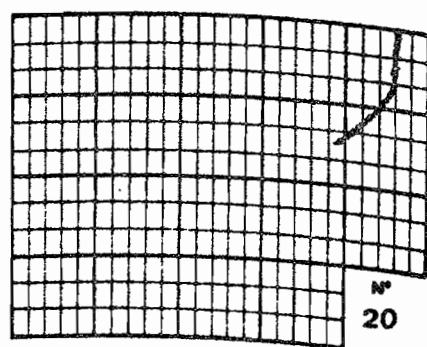
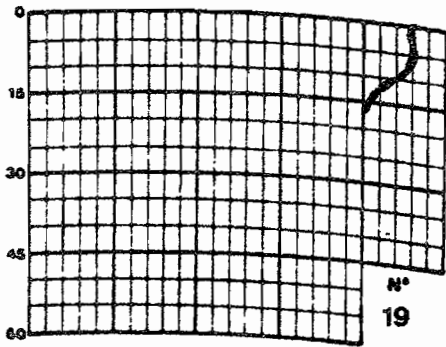
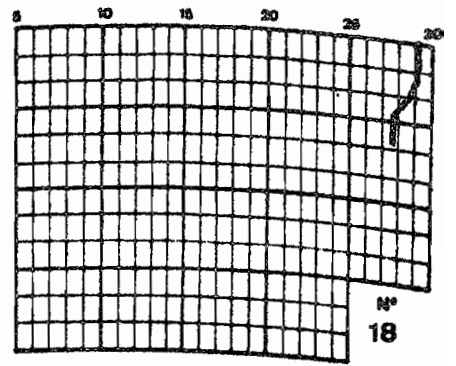
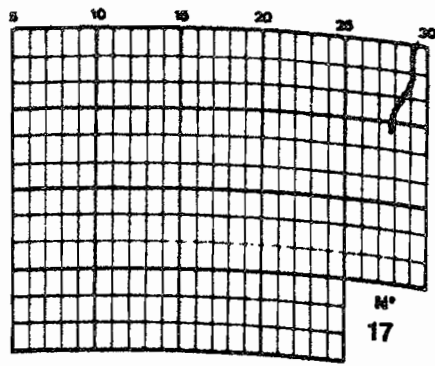
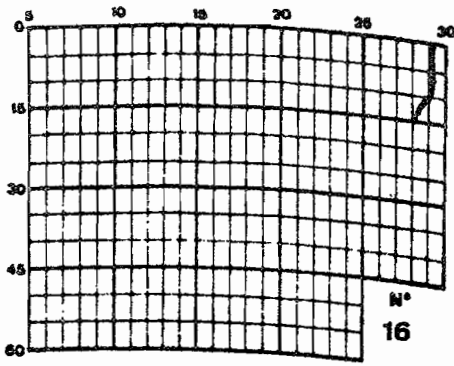
M. THIAM (suite)

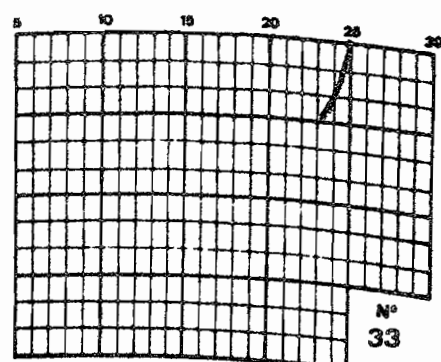
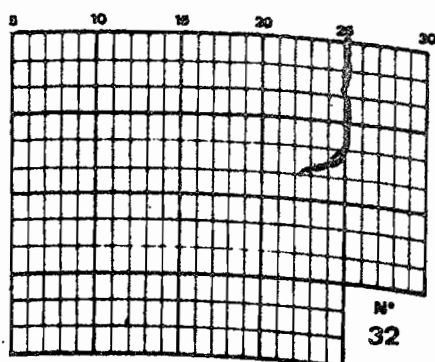
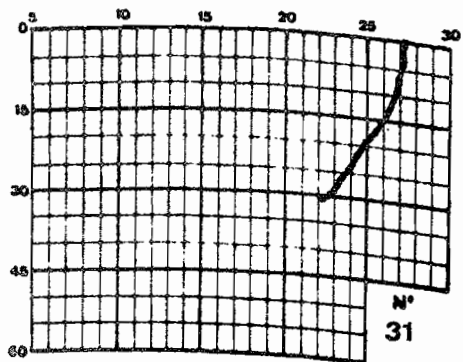
DATE	HEURE	POSITIONS		BT N°	T° Surf.	S‰ Surf.
		LAT.	LONG.			
17.10.76	07.45	16°07'5N	16°31'6W	27	25.0	-
"	12.00	15°55'8N	16°34'8W	28	25.5	-
"	13.45	15°57'5N	16°40' W	29	27.1	-
"	15.15	15°55'5N	16°42'2W	30	27.8	-
"	18.45	15°52' N	16°38'8W	31	27.1	-
18.10.76	08.45	15°50' N	16°37' W	32	25.0	-
"	10.35	15°52' N	16°33'5W	33	24.9	-

L. A 7638









BATHYTHERMOGRAPHE N° 11011

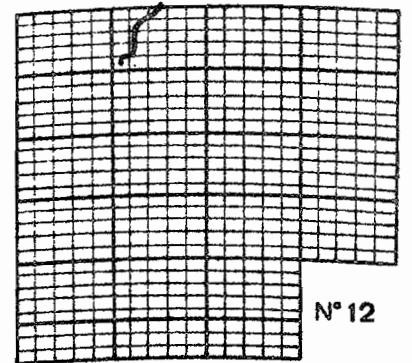
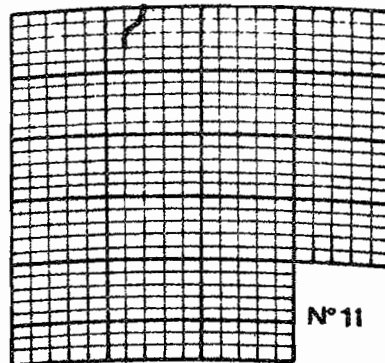
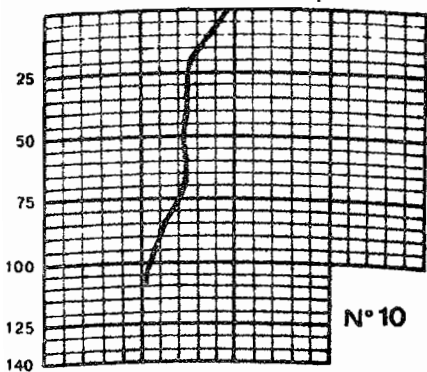
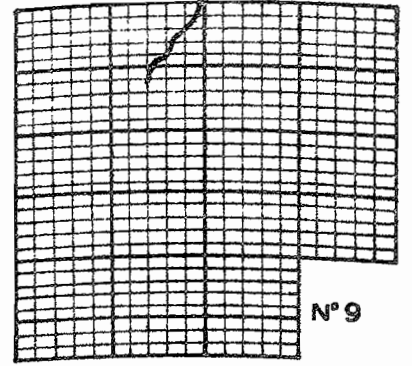
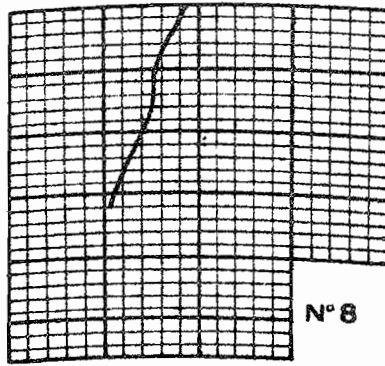
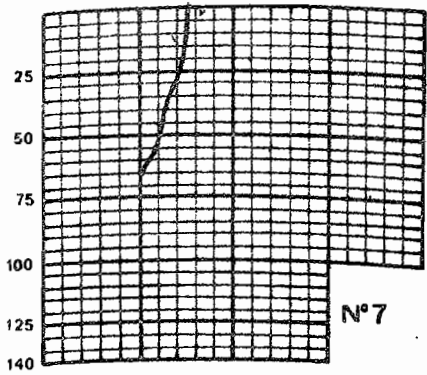
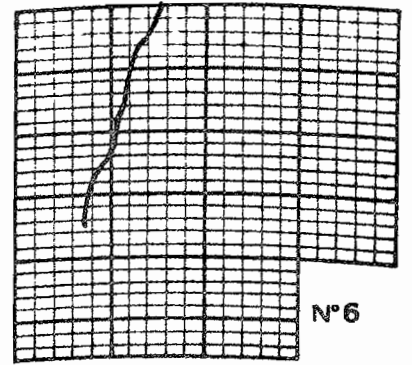
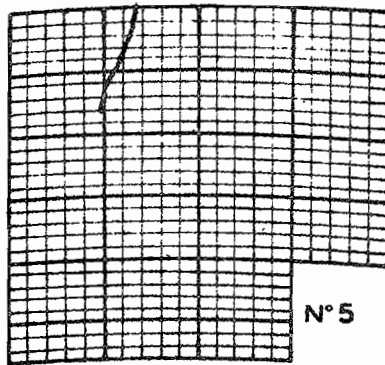
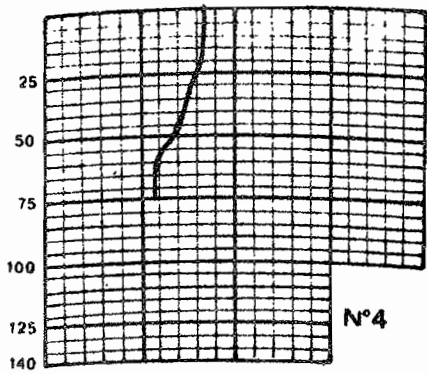
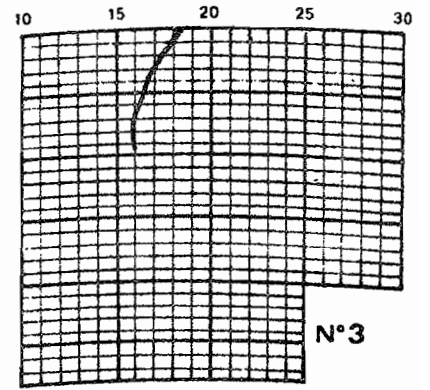
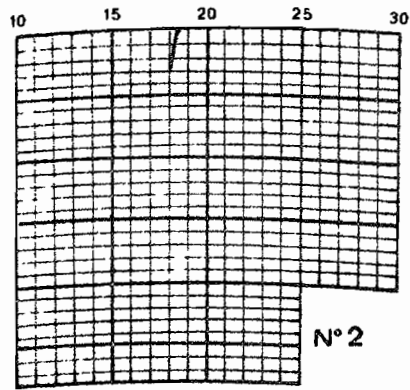
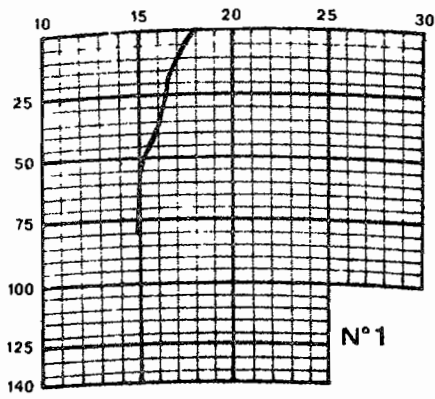
CAPRICORNE 76.05

D.S. 62

DATE	HEURE	POSITIONS		PLAQUE BT N°	T° Surf.
		LAT.	LONG.		
23.4.76	07.15	15°30' N	17°07' W	1	18.0
"	09.00	15°30'5N	16°45'5 W	2	18.3
"	11.50	15°40'	16°51'5	3	18.0
"	15.00	15°50'	16°48'	4	18.3
"	18.00	16°00'	16°51'	5	16.6
"	19.20	16°00'	16°38'5	6	17.7
24.4.76	06.20	15°30'	16°56'5	7	17.7
"	09.10	15°20'	17°00'	8	19.3
"	11.20	15°10'	16°58'	9	19.8
"	18.40	14°52'	17°21'	10	19.5
25.4.76	06.20	14°20'	17°08'5	11	17.0
"	11.20	14°10'	17°08'5	12	17.7
"	16.30	13°59'	17°11'	13	17.7
"	21.30	13°50'	17°09'	14	17.5
26.4.76	06.20	13°30'	17°16'	15	18.0
"	09.00	13°20'	17°28'5	16	19.0
"	15.30	13°10'	17°29'5	17	20.5
"	18.10	13°10'	17°02'	18	20.5
27.4.76	06.30	12°40'	17°34'5	19	20.5
"	18.10	12°18'5	17°23'	20	20.4

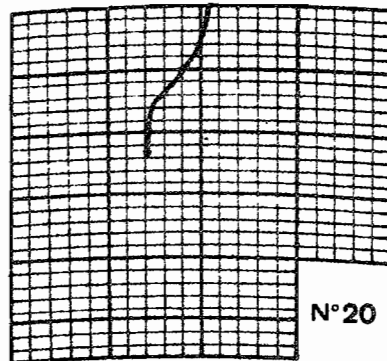
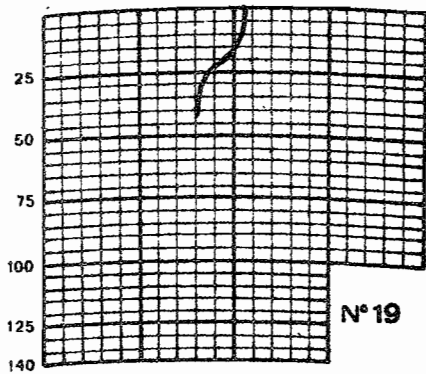
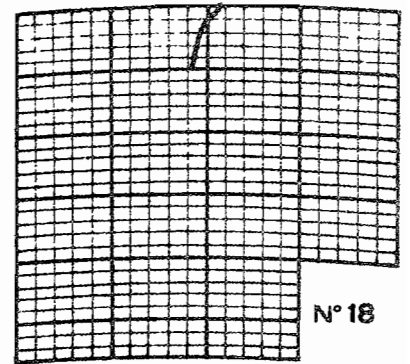
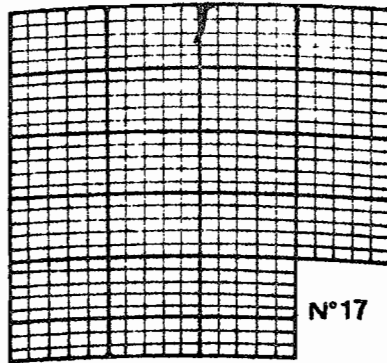
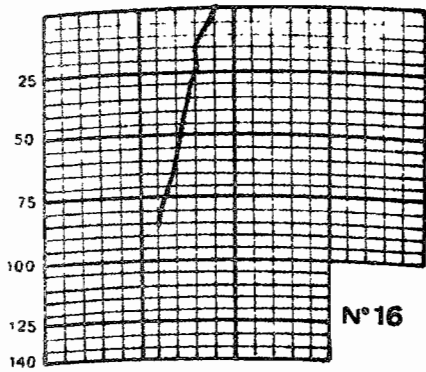
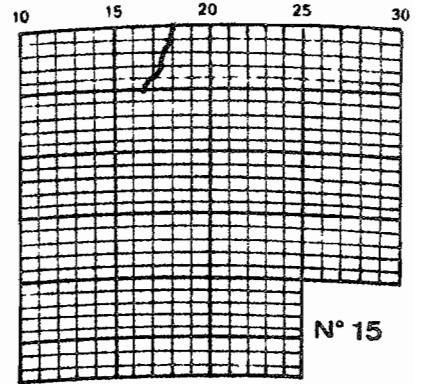
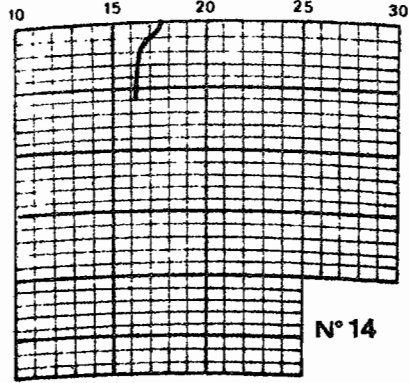
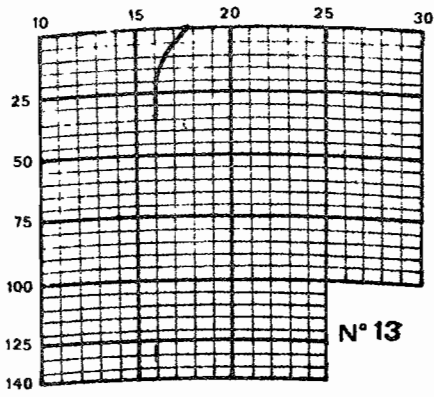
BATHYTHERMOGRAMMES-
CAPRICORNE 7605

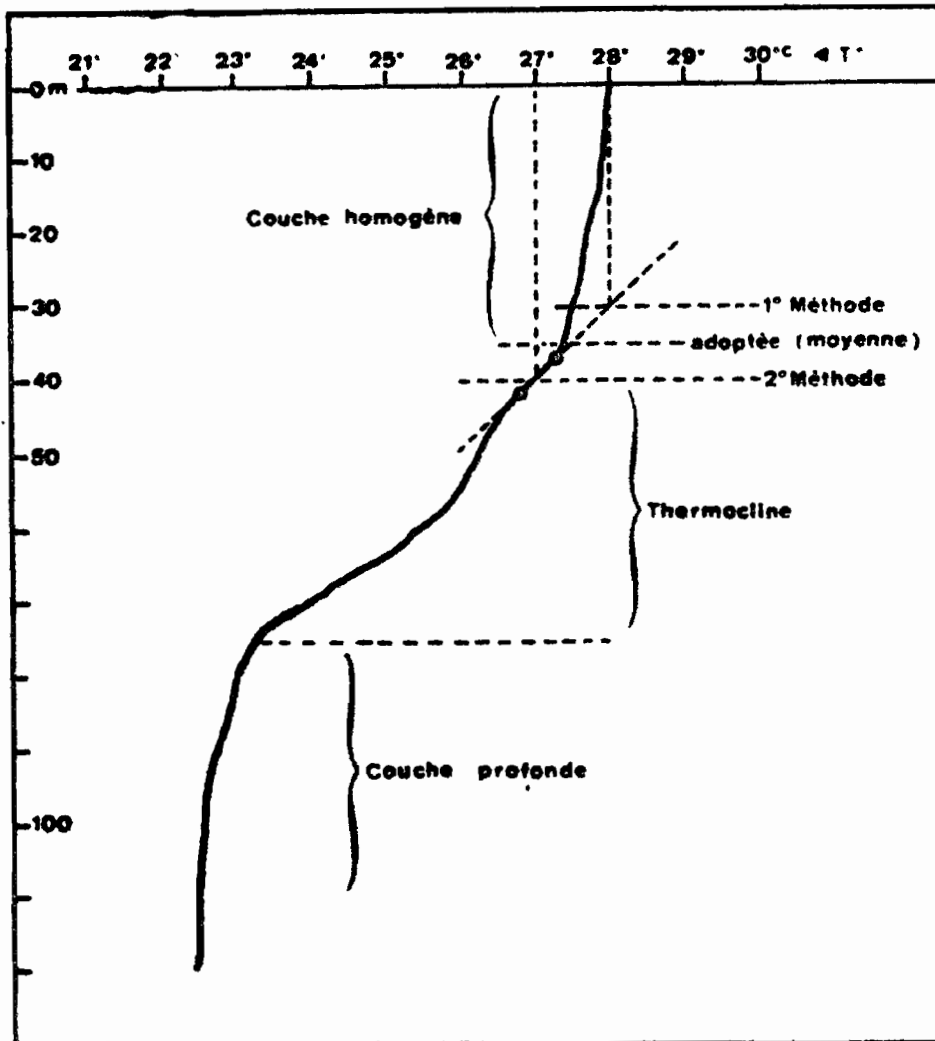
RR 11011



BATHYTHERMOGRAMMES-
CAPRICORNE 7605

RR 11011





Cette figure représente la définition caractéristique d'un B.T. . L'épaisseur de la couche homogène est une donnée spécialement intéressante dans certaines techniques de pêche, mais son estimation à partir d'un B.T. étant assez subjective, il convient de préciser la méthode utilisée par WYRIKI (1971)

On distingue généralement, à partir de la surface :

- Une couche supérieure quasi-homogène
- La thermocline où la température varie rapidement
- Une couche profonde où la température décroît lentement

La profondeur "P" de la couche homogène est estimée par deux méthodes :

Par la première méthode : On note le premier intervalle où la température varie de plus de 0,5 degré en 5 mètres ; "P" est alors l'immersion où la droite (qui joint les points représentant cet intervalle sur la courbe bathythermique) coupe la verticale correspondant à la température de surface.

Par la deuxième méthode : On prend "P" égal à l'immersion où l'on observe 1 degré de moins qu'à la surface.

- Lorsque ces deux méthodes sont applicables on adopte pour "P" la moyenne des deux valeurs obtenues.

DERNIERES ARCHIVES PARUES

- N° 40 Sept. 76 - Variations d'abondance et de taille des postlarves de crevette (Penaeus duorarum Burkenroad) dans le Sine Saloum
par F. LHOMME.
- N° 41 Nov. 76 - Rapport des missions 75.12 et 76.22 pour l'étude de la croissance et la mortalité des oeufs et larves de sardinelles
par F. CONAND.
- N° 42 Janv. 77 - Etude biochimique de la baie de Gorée. Résultats de mesures
par Ph. AMADE.
- N° 43 Janv. 77 - Pollution des eaux de surface. Résultats de mesures côtières autour du Cap Vert en 1976.
par Ph. AMADE.
- N° 44 Fev. 77 - Les poissons pélagiques côtiers au Sénégal Recueil de statistiques de la pêche des sardiniers Dakarais en 1976.
par P. FREON.
- N° 45 Avr. 77 - Observations océanographiques côtières effectuées en 1976.
par J.P. REBERT, M. PRIVE, P. AMADE et J.J. WAGNER.
- N° 46 Avr. 77 - La pêche chalutière à DAKAR en 1976
par F. LHOMME.
- N° 47 Mai 77 - Moyennes Générales des observations océanographiques côtières du Sénégal
par J.P. REBERT et M. PRIVE.
- N° 48 Mai 77 - Campagne courantométrie et hydrologie L.A. 76.37
Résultats d'observations
par M. PRIVE..
- N° 49 Mai 77 - Campagne Courantométrie et Hydrologie L.A. 76.43. Résultats d'observations
par M. PRIVE et J.J. WAGNER.
- N° 50 Juin 77 - Croisière Capricorne 77.03. Résultats d'observations Bathythermogrammes (16 Avril-10 Mai 77)
par M. PRIVE et J.J. WAGNER
- N° 51 Juin 77 - Croisière Capricorne 77.03.
Résultats Echoprospection (sous presse)
par B. STEQUERT.